



The Blurb

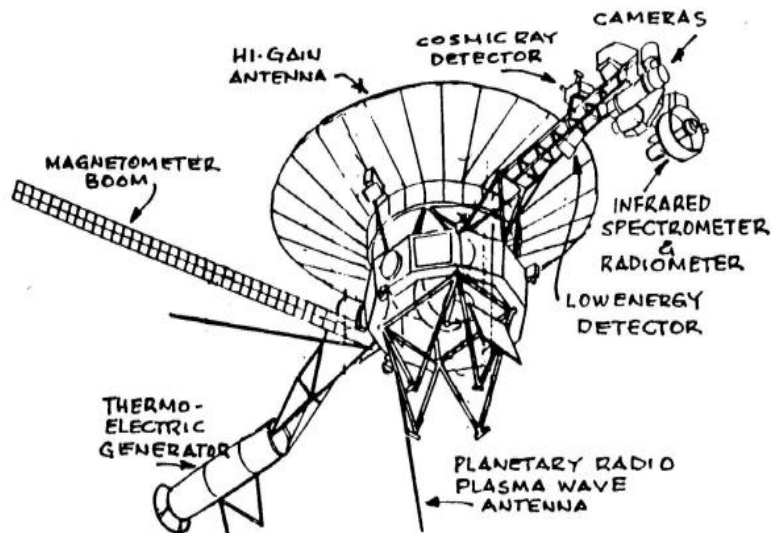


Newsletter of The Phil-Mont Mobile Radio Club Public Service Since 1949

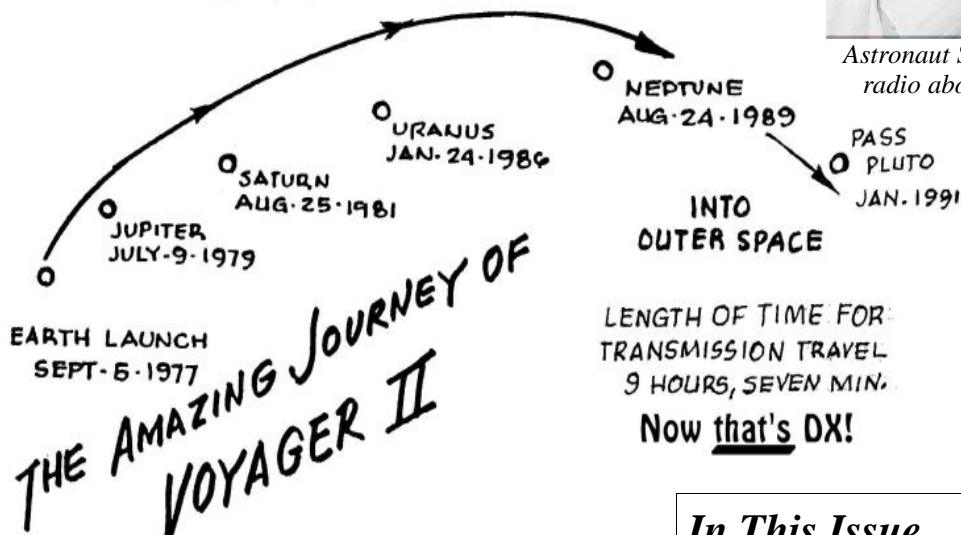
Volume 52 Number 8

<http://www.phil-mont.org>

August 2002



Astronaut Susan Helms KC7NHZ operating ham radio aboard the International Space Station



THANKS TO NASA FOR THE INFO.
AND FRANKLIN INSTITUTE ASTRONOMY DEPT.

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The Blurb is published monthly by, and for, the members of **The PHIL-MONT MOBILE RADIO CLUB, INC.** whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. *Copying and quoting* is permitted with a credit line. We gladly exchange publications with other amateur radio clubs. Requests should be sent to the Editor. *Subscriptions* are available to non-members for \$10, addressed to the Treasurer.

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Send *address and club directory changes* to wb3koj@comcat.com

Submissions deadline: all copy must be in the hands of the Editors by the 20th of the previous month.

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Skywarn: WX3PHI

Sunshine: WU3I

Youth: N3MT

TVI: W3VVS

VE Program: ND3Q

W3AA Trustee: WU3I

Welcome: K3CJ.

Directors:

**WU3I (02), W3RM (02),
W3BBB(03), N3MT (03),
N3XKE (02), W3AOK(03),
W3WF (A)**

The club meets at 7:30 PM on the second non-holiday Wednesday of every month except July and August at The Franklin Institute Science Museum, Benjamin Franklin Parkway at 20th Street, Philadelphia. Enter from Winter Street or the parking garage on 21st street.

All visitors are welcome!

License Examinations

are held on the first non-holiday Thursday of every month at The Franklin Institute Science Museum. Registration finishes at 6 p.m. Doors close at 6:30 PM-SHARP!

Club Stations

W3AA – The club sponsors this world-class demonstration station at The Franklin Institute Science Museum. and welcomes all licensed amateurs to operate.

Trustee: WU3I

Manager: W3STW

email: w3aa@phil.mont.org

packet BBS: 144.99 MHz

w3aa@w3aa.#sepa.pa.usa.noam

W3EM – Field Day and special events station – **Trustee W3VVS**

W3QV – Club Repeater

Ridge & Port Royal Avenues, Philadelphia, PA

Trustee: W3BBB

147.03 MHz + PL 91.5 Hz

444.80 MHz rx PL 186.2 Hz

Club Simplex: 147.51 MHz

Sunday Morning Net Schedules

- **2 Meter Net** at 09:30et on W3QV repeater
- **10-on-10 Net** at 10:00et 28.393 MHz USB (±QRM)
- **75 meter Net** at 10:20et 3.993 MHz LSB

Satellites and Space in Amateur Radio

Many radio amateurs have traditionally had a deep interest in aviation, astronautics and space sciences. In the immediate pre-WWII era, Dr. Grote Reber W9GFZ invented the science of radio astronomy, which to this day serves as an important source of information about the universe in which we live. And by 1953, Ross Bateman W4AO and William Smith W3GKP were successfully bouncing amateur radio signals off the surface of the Moon.

A decade later, the first amateur radio spacecraft, OSCARs I and II (Orbiting Satellite Carrying Amateur Radio) thrilled thousands of amateurs with weak CW signals from space that they could detect on 2m. Even though these satellites had transmit power of only around 100mW, and a battery lifetime of only about 20 days, these were important milestones in the development of amateur radio in space.

In 1963, OSCAR III became the first amateur radio spacecraft to realize Dr. Arthur Clarke's dream of a radio relay station in space. OSCAR III's transponder provided 50kHz bandwidth of 2m relay capability, and served over 1,000 users during the 22 days it was in operation, many of them simultaneously.

By the 1970's, OSCAR 5 had demonstrated the feasibility of

transmitting from space on HF frequencies with a 10m beacon, and responded to remote commands transmitted from the ground. And in 1972, OSCAR 6 ushered in the era of "Phase 2" amateur spacecraft, characterized by circular, low orbits and long satellite lifetimes, measured in years rather than days. Since the launch of OSCAR 6, there has always been an operational amateur radio spacecraft on-orbit.

OSCAR 6 demonstrated new levels of complexity. A Mode A transponder (see sidebar about Transponder Modes) was widely used, and a 70cm beacon demonstrated the feasibility of UHF downlink signals. A "codestore" facility allowed CW messages to be uplinked to the satellite, stored in a digital memory, and then either broadcast or delivered on-demand, later in the orbit, over a different part of the Earth. Sophisticated command capabilities from the ground, and solar power (rather than just batteries) helped keep the satellite operational for over four years.

With the launch of OSCAR 7 in 1974, the amateur satellite community now had *two satellites* in operation simultaneously. In fact, many amateurs outside the US reported that the OSCAR-6 codestore bulletins provided them

with their most timely and reliable information about the launch of OSCAR 7. OSCAR 7 sported a microwave beacon, and a Mode B transponder based on a new design, with 8 W of downlink power.

OSCAR 7 operated for six and a half years, until a battery cell that had failed to an open circuit shorted internally during a period when the satellite was in eclipse (in the Earth's shadow for 20 minutes each orbit). Fully two decades later on June

21 of this year, the shorted cell reopened, and today the satellite (a near-antique by high-tech standards) is once again in limited operation in Mode B on a daily basis.

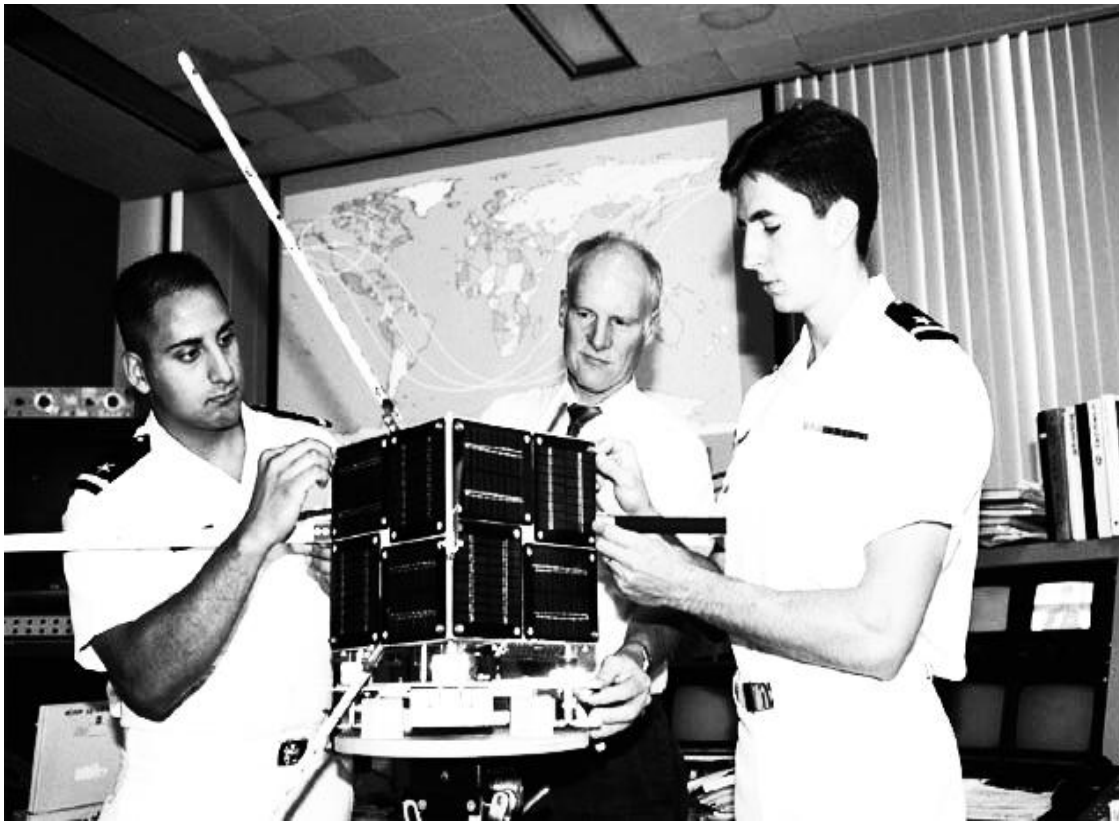
While the Phase 2 "birds" were doing yeoman service (and OSCAR 8 was added to the constellation), the amateur satellite community (by then known as AMSAT) began to focus its attention on the design of a new kind of amateur satellite.

Phase 3 satellites would have new, highly elliptical "Molniya" orbits that would make them available for much longer stretches of time than the 10 to 15 minute span typical of a Phase 2 satellite, whose low orbital altitude has it passing quickly though the sky at any one location.

Transponder Modes

...tell you in what band a satellite is listening (uplink) and into what band it will repeat what it hears. The recognized modes are:

A: 2m uplink, 10m downlink
 B: 70cm uplink, 2m downlink
 J: 2m uplink, 70cm downlink
 K: 15m uplink, 10m downlink
 S: 70cm uplink, 2.4GHz (S-band) downlink
 T: 15m uplink, 2m downlink



Bob Bruninga WB4APR (center) and two students from the U.S. Naval Academy with PCSat (NO-44) in the Naval Academy Satellite Laboratory before launch

There has been significant amateur radio activity involving manned spacecraft as well. The Russians maintained an active amateur 2m station and packet radio BBS on board their Mir space station, and many 2m voice contacts were made using handtalkies from orbiting Space Shuttles during the SAREX program. Today, both projects are combined into the ARISS project on board the International Space Station, through which both voice contacts with the space station crew and unattended packet radio operation have been maintained.

The first Phase 3 satellite, Phase 3A was lost at launch in 1980, but Phase 3B was designated AMSAT OSCAR-10 after it achieved orbit in 1983. It was slightly damaged by a series of glancing collisions with the launch vehicle after separation, but has provided good service since, even after the on-board computer failed in 1986 due to prolonged exposure to radiation. AO-10's Mode B transponder is still in operation.

The next Phase 3 bird, AO-13, was launched in 1988. It was largely modeled on the successful AO-10, with some evolutionary improvements and corrections for known problems. Unfortunately, an obscure problem in its orbital mechanics caused the orbit to decay prematurely, and AO-13 was

destroyed by reentering the atmosphere in 1996, after nearly a decade of service. The long-awaited and highly publicized AO-40 (known before launch as Phase 3-D) encountered severe damage not long after launch, probably due to a propulsion systems incident, but is still very much in operation with VHF, UHF and L-band microwave uplinks and an S-band (2.4 GHz) downlink, which can be received with a 2-meter all-mode receiver combined with an inexpensive downconverter at the antenna. Your editor recently jokingly referred to AO-40 in an AMSAT discussion group as "the most successful satellite that ever blew up". Successful contacts using SSTV and PSK-31, as well as the more traditional CW and SSB modes, are made every day though AO-40.

In June, ISS Expedition 2 crew member Jim Voss testified before the US Senate Committee on Commerce, Science and Transportation that ARISS "offers the opportunity for students to experience the excitement of space flight by talking directly with crewmembers of the ISS via Amateur Radio." He also reported the comments of Allen White, WB4MIO, who helped to coordinate Voss' ARISS contact with students at a middle school in Alabama "There is no way I can adequately describe the excitement this created in our school and community...I think this was the most exciting educational event of the year for these students."

And amateur radio in space is not just voice contacts. Space-based digipeating of packet radio signals

via the ARISS station, as well as through the Naval Academy's PCSat spacecraft (which achieved widespread press coverage for being built on a \$50,000 budget from off the shelf parts) are received by a network of ground stations and recorded at the ariss.net web site. PSK-31 is used for contacts through AO-40. Successful SSTV contacts have also been made through AO-40 demonstrating a capability that will be used later from the ARISS station to broadcast images from the space station to Earth-bound amateurs.

Want to get in on the fun?

There are many different kinds of spacecraft and operating modes available in space and satellite amateur radio today, and this article can only be the briefest overview of the history and current state of this end of our hobby. Just deciding which particular aspect you might be interested in exploring requires some investigation and study.

One good place to start that learning is the *ARRL Operating Manual* (you do have a copy, don't you?) chapter on satellites and space.

More technical detail and historical information is available in the *Radio Amateurs Satellite Handbook*. However, this technology changes so rapidly that some of the best sources of information are on-line on the Internet. The

best place to start on-line is the AMSAT-NA web site, <http://www.amsat.org>

AMSAT maintains several email lists, and publishes a quarterly journal, as well as a weekly new bulletin which includes the Weekly Satellite Report, giving the status and operating parameters of all spacecraft involved in amateur radio. This is a very valuable reference since spacecraft status and schedules are constantly changing.

AMSAT Area Coordinators are local volunteer elmers who are willing to introduce you to the fundamentals of satellite work and help you get started. I happen to be one, and can also help you hook up with other active satellite folk

AMSAT nets

AMSAT International HF net:
Sundays 1900 UTC 14.282 MHz

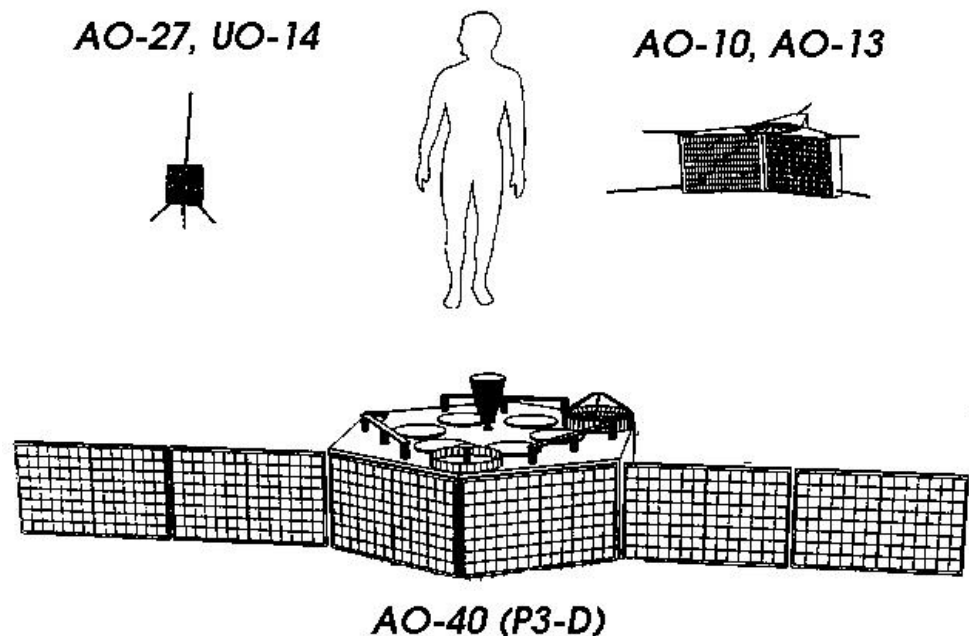
AMSAT-NA East Coast
Tuesdays 2100 local 3.840 MHz

Houston AMSAT VHF Net
Tuesday Evenings 2000 Central Time
locally on AA3RG 146.64—
Also on IRLP and online
see: <http://amsatnet.com>

locally like our own PMRC vice-president Al W3STW.

Hope to see some of you on the birds someday soon...

de Maggie K3XS



Relative sizes of amateur radio spacecraft

FAR Announces Scholarship Awards

The FOUNDATION FOR AMATEUR RADIO, INC. Is pleased to announce this year's winners for the fifty-seven (57) scholarships which it administers. The names of the recipients for the individual awards appear on the

attached list.

These scholarships were open to all licensed Radio Amateurs meeting the qualification and residence requirements of the various sponsors.

The FOUNDATION is a non-profit organization incorporated in the District of Columbia,

representing more than seventy-five Amateur Radio clubs in Maryland, the District of Columbia and Northern Virginia. It is devoted exclusively to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

The announcement for the year 2003 awards will appear in the

FAR SCHOLARSHIPS AWARDS 2002	Melody L. Siff, KE4ACK – Chesapeake, VA John L. Walker, N4DMR – Cullman, AL	Gary A. J. Raney, KM5TY – Houston, TX	10-10 International Net Scholarships – 5 @ \$1000 each Joshua J. Long, N8CFS – Imlay City, MI Jonathan D. Marvin, W0LBG – Johnston, IA David W. Smith, N8SQJ – North Branch, MI David Ziskind, KE4QLH – Atlanta, GA Lori Lenzion, KC8JUY – Fowlerville, MI
FAR SILENT KEY Memorial Scholarships 3@ \$1000 each Bryan Myhre, KG4DMM – Montclair, VA Vanessa Avanzini, KF4LLY – Burke, VA Kathy Hufford, KF4CJR – Woodbridge, VA	Young Ladies' Radio League Scholarships Ethel Smith (K4LMB) Memorial Scholarship – \$1500 Carolyn M. Keydash, N3DON – Berlin, MD Mary Lou Brown (NM7N) Memorial Scholarship – \$1500 Rebecca D. Worster, KD5LSS – Harrison, AR	Dade Radio Club Tropical Hamboree Scholarships – 2 @ \$1000 each Michael Henry, KF4KDI – Rotonda West, FL Gary T. Fowks, KF4HEE – Saint Cloud, FL	
QCWA Named MEMORIAL Scholarships – 5@ \$1500 each	Phil-Mont Mobile Radio Club – \$2000 Michael P. Taraborrelli, N3MT – Philadelphia, PA	William R. Jochimsen, K4ZK Memorial Scholarship – \$500 Sponsored by the Martin County Amateur Radio Ass'n Nathan Ott, KF4JER – Inverness, FL	Kevin Barry Perdue Memorial Scholarship – \$2000 Sponsored by Kay (WT3P) and Carter (N3AO) Craigie Krista D. Birmingham, KB2MER – Ridgewood, NJ
Ralph Hasslinger(W2CVF) Charter Member Scholarships Mark Henry, KE4UFT – Rotonda West, FL	Lawrence E. and Thelma J. Norrie Memorial Scholarship – \$2500 Michelle Swann, KE4EZI – Warner Robbins, GA	Virginia Beach Hamfest Scholarships – 3@ \$500 each Christina Christianson, KG4NII – Falls Church, VA James A. Rusinko, KB3GWD – Pittsburgh, PA Phillip A. Bogacki, KB9KEE – Milwaukee, WI	WARAC Memorial Scholarship – \$1500 Sponsored by the West Allis Radio Amateur Club Michael J. Haessler, KB9TGF – Waupaca, WI
Donald & Phyllis Doughty Family Scholarship Donald M. Guisinger, KC8RPE – Massilon, OH	Richard G. Chichester, Memorial Scholarship, – \$1000 Sponsored by Patricia and Jack(W9AMF) Chichester Therese G. Long, KC8PEZ – Imlay City, MI	Ernest L. Walker, WB3DVL Memorial Scholarship – \$1000 Sponsored by the Baltimore Radio Amateur TV Society Jo Ann Simpson, KA3WPD – Temple Hills, MD	South Milwaukee Amateur Radio Club Scholarships – \$1000 Andrew J. Wagner, KB9TAC – Menomonie, WI
Travis Baird (K9VQD) Memorial Scholarship Andrew F. Schaefer, KB2ZWZ – Binghamton, NY	Radio Club of America Scholarships – 1@ \$5000 Scott E. Brock, KB9SZW – Rushville, IN	Maryland Mobileers Memorial Scholarship – \$1000 In Memory of Jerry Gavin, NU3D Jesse M. Small, KB3GXV – Waldorf, MD	Ozaukee Radio Club Scholarship – \$1000 Andrew A. Knitt, KB9JOZ – Rhinelander, WI
Edwin P. Woodruff(W3SX) Memorial Scholarship Jason M. Marshall, KB1CZE – Monticello, ME	Columbia Amateur Radio Association Scholarship – \$1000 Shaun Hutton, N3WBM – Frederick, MD	Nanticoke Amateur Radio Club Scholarship – \$1000 Joshua K. Brown, KF4HJO – Virginia Beach, VA	Free State Amateur Radio Club Scholarship – \$1000 Brian J. West, N3SRW – Gaithersburg, MD
Leo Meyerson Family Living Scholarship Martin C. Worster, KD5LJT – Harrison, AR	Baltimore Amateur Radio Club Scholarships Scott M. Lazzaro, N3MWX – Mount Airy, MD – \$1000 Nancy H. Christian, KB3BBF – Lanham, MD – \$1000 David Wilson, N3OYF – Columbia, MD – \$1000 Elizabeth R. Schemm, KA3WVL – Clarksville, MD – \$1000	Murgas Amateur Radio Club Scholarship – \$500 Thomas M. Reber, KB3FCH – Coatesville, PA	Robert E. True Memorial Scholarship – \$1000 Sponsored by Mrs. Shirley True Banning Michael J. Wagner, KC8PRH – Alliance OH
QCWA Memorial Scholarships – 11@ \$1000 each Jeannemarie Bacon, KB1GUZ – Randolph, MA Matthew G. Kersus, KC2GGA – Wall, NJ Gregory W. Bennett, K1GWB – Jaffrey, NH Andrew Carson, KB7PEH – Shoreline, WA Matthew Henry, KE4VEM – Rotonda West, FL Kelly Lenzion, KC8JUX – Fowlerville, MI Robert C. Mate, KB8BXJ – No. Olmstead, OH Daniel Nygren, KA3ZHT – Sweet Valley, PA Mark A. Pettus, KE4ESF – Delta, AL	Ernie Dobos Memorial Scholarship – \$1500 Andrew Metcalf, KB3GYE – Smithburg, MD Ralph V. "Andy" Anderson, K0NL, Memorial Scholarship – \$1000	Rose Ellen Bills Memorial Scholarships – \$2000 James R. Martin, KD5FAN – Flower Mound, TX Frederick Amateur Radio Club Scholarship – \$1000 Christopher B. Beall, N3TIK – Myersville, MD	Northern California DX Foundation Scholarships – \$2000 Laura Sobon, AD4PU – Parker, CO Potomac Valley Radio Club Scholarship – \$1000 Nathaniel Heatwole, WZ3AR – Damascus, MD

January or February issues of the major Amateur Radio publications and selected radio club newsletters.

FAR AWARDS FIRST HARING MEMORIAL SCHOLARSHIP

The Foundation for Amateur Radio, Inc., has notified PMRC that its Scholarship Committee has selected **Phil-Monter Michael Taraborrelli, N3MT**, as the winner of the first Claude H. Haring, Jr., W3IIM, Memorial Scholarship.

Michael was the committee's unanimous choice out of six applicants who were deemed eligible for this scholarship by reason of their qualifications and residence in the Eastern Pennsylvania and Southern New Jersey ARRL Sections.

The committee evaluates the application forms and supporting documents (without applicants' names attached), based on need, merit, and the other criteria outlined in the regulations, and using an agreed upon rating system. Telephone calls to references are used to verify a winning applicant's information.

F.A.R. administers 60 to 70 scholarships each year, sponsored by clubs and individuals, including 16 memorial scholarship grants sponsored through the Quarter Century Wireless Association.

Phil-Mont is especially proud to

have one of our own young members receive this first Haring Scholarship. When notified of the award, Jack's widow, Jinny, W3IIN, was thrilled, "Jack would be so pleased to see Michael get this first scholarship!"

If possible, Jinny plans to come up

from her home in St. Michaels, MD, to make the scholarship presentation to Mike at the September 11th. general meeting.

Plan to be present to see Jinny, and to congratulate N3MT.

The Foundation For Amateur Radio, Inc.



FAR Scholarships
Post Office Box 831
Riverdale, MD 20738
July 8, 2002

Richard A. Moll, W3RM
Post Office Box 88
Abington, PA 19001

Dear Dick:

The Foundation's Scholarship Committee has completed its evaluation of this year's applications and made fifty-seven (57) awards. There were six qualified applicants competing for this scholarship in Memory of Claude Haring, W3IIM. Selected as the winner of the award was Michael Taraborrelli, N3MT, one of your own club members. He was the unanimous choice of the Committee; two of the remaining five applicants received other FAR awards.

Last year, Michael was the winner of one of the two scholarships sponsored by the Northern California DX Foundation. He will be a senior at Villanova University where he is pursuing a liberal background of studies which will prepare him for a career in education or public service. The Committee feels that in his future career, he will be a credit to himself, his country, and Amateur Radio.

In order to complete your records, a copy of the formal letter notifying him of the award and a copy of this year's winners are attached. The Foundation is pleased to cooperate with the Phil-Mont Mobile Radio club's efforts to assist deserving radio amateurs in furthering their careers,

73,

Hugh A. Turnbull, W3ABC
Chairman Scholarship Committee

Due to a last-minute error on my part, the minutes of the PMRC June regular and Board of Directors' meetings were replaced with those of the May meetings. We're publishing the June minutes in this issue, there being no July (or August) meetings scheduled.

— Sorry! Maggie K3XS

June PMRC Board of Directors' Meeting

The June meeting was held at the home of W3BBB Jim & Elaine Spencer. Attending were Al W3STW, Ed KB3IV, Jim W3BBB, Elaine, Gene N3XKE, Fred WA3KIO, Bill W3AOK, Steve WU3I, Rick N3FD, and Ted KB3HAQ.

Ed called the meeting to order at 8:20PM.

Mike K2BN could not attend but Ed gave the report: "We have money". New members: Robert Hill KB3HNB was voted on. Steve WU3I made a motion to accept him for membership. It was seconded. Welcome Bob.

Field Day: Steve said everything is ready except for a few things to square away.

The website is running OK.

There will be no general meetings in July or August.

September 11th will be a general meeting at the Franklin Institute when Russ W3CH will pass out

MS150 packages.

October 9th Jim Spencer will speak about the repeater.

On November 13th, Dennis K3DS will speak on Microwave.

December will be elections and the ARRL section manager.

Repeater: Jim W3BBB stated that all the UHF gear is ready to go as soon as the crystal arrives.

A new meeting place was discussed. The Masonic Home in Lafayette Hill has offered to allow us to hold meetings at their site. We will still meet at the Franklin Institute in September. Northeast High School is being looked at for W3AA and possibly VE testing. Nothing has been decided yet. The only thing definite is that we are leaving the Institute. More on new locations later as things develop.

At this time, 10:14PM, the meeting was adjourned. Thanks to Jim and Elaine for hosting the meeting.

73 de WA3KIO

June PMRC General Meeting

Charlye K3CJ reported 17 people attending. Al W3STW called the meeting to order.

Mike K2BN reported that the club is solvent. He will be turning over the treasurer's duties to Dick W3RM and Mike N3MT.

Public Service: Bill W3AOK thanked those who helped out with



199th Monthly Phil-Mont VE Exam Session Statistics for July 11, 2002

Five candidates took eight elements, and we had four upgrades and no new hams. The VE team was chaired by Dusty Rhoads **ND3Q**, and the other

participating VEs were:
Bob Freer W3YLT
James R. Perry W3JRP
John S. Urban N3JU
Bill Palmer W3ELN

Upcoming Exam Sessions:
August 1, 2002, September 5, 2002,
October 3, 2002
(See page 2 for details)

the First Union Bike Tour.

Charlie W3WF reminded everyone the MS150 Bike Race is September 28th and 29th. For 10 dollars, your call can be on the back of the shirts with the money going to support the cost of the shirts.

Membership: Robert Hill KB3HNB was voted in as a new member.

Since we are definitely leaving the Franklin Institute, the MS150 will be the last event before closing the station.

Steve WU3I spoke about a new home for W3AA at North East High School on Cottman Street. There are still some things to be worked out. There is to come on this matter later.

The repeater has been working. The Lansdale input is up and running. The UHF transmitter will be up soon.

The July VE test session will be moved to July 11th due to the holiday on the 4th.

Ed KB3IV spoke on moving the general meetings to the Masonic Home on Ridge Pike in Lafayette Hill, just outside the city limits. We are not sure where VE testing will move to yet.

At this time the meeting was adjourned and turned over to Steve WU3I to speak about Field Day.

73 de WA3KIO

ARRL Receives Homeland Security Training Grant

NEWINGTON, CT, Jul 18, 2002—The ARRL will receive a \$181,900 homeland security grant from the US government to train Amateur Radio operators in emergency communication. The League was among several dozen nonprofit organizations designated to receive some \$10.3 million in federal money to boost homeland defense volunteer programs. The grant, from the Corporation for National and Community Service special volunteer program, will provide free ARRL Amateur Radio Emergency Communications Course training to 5200 volunteers nationwide, starting in 2003.

"ARRL is the national association for Amateur Radio and is the national leader in emergency communications by volunteers who operate their own equipment on their

Get Well Soon, Sam!

To our staff artist Sam Kunceovich **N3QIE**, who is currently convalescing at home after a hospitalization for a heart problem

time at no cost to any government, organization, or corporation," said the announcement today from Homeland Security Director Tom Ridge. The ARRL plans to revise and update the emergency communications curriculum to incorporate additional elements of emergency preparedness and homeland security.

ARRL President Jim Haynie, W5JBP, said he was extremely pleased by the news. "This adds legitimacy to the public service work Amateur Radio has been doing for years," he said.

ARRL Chief Development Officer Mary Hobart, K1MMH, applied for the funding in May, inviting the Corporation for National and Community Service to become "a

partner with the nation's oldest volunteer radio communications organization."

"I think this is an extraordinarily exciting day for Amateur Radio that the role of Amateur Radio in homeland security is recognized at the highest levels of government," Hobart said when learning of the grant. The League's grant application characterized Amateur Radio as "the bedrock of communications when other outlets fail."

The League had sought a three-year grant of \$541,750. The \$181,900 grant covers the first year's direct program costs. The proposed budget includes the cost of a project coordinator who would be responsible for overall fiscal management of the grant.

"We are deeply grateful to Tom Ridge and to the Corporation for National and Community Service for providing Amateur Radio with a unique opportunity to serve our country," Hobart said.



At press time P.M.R.C. has:
119 FULL PAID MEMBERS
12 FAMILY MEMBERS
3 YOUTH MEMBERS
2 HONORARY MEMBERS
0 PENDING MEMBERS

August Birthdays

- 01: Lee Pamplin – N3EKR
- 02: Tom Bohlander – WA3KLR
- 04: George King – W3PXY
Alice Tannenbaum – WA2BTB
- 05: Rollie Madara – W3PWG
- 09: Carolyn Popovic – KA3VLJ
- 12: Ethel Cox (XYL K3TYB)
Joann Hoch – N3FTC
- 14: Lucille Gargano (XYL N3YGY)
Pat Mescanti (XYL K2LK)
- 15: Art Lester – W3FWI
Richard Williams – KB3CPC
- 17: Kitty Newman (XYL KC2FIO)
- 19: Donna Lynn Larkin – WA1WYQ
(XYL KA2FFP)
- 22: Hal Burks – KA3LCW
- 24: Frank Burstein (OM KB3ANO)
Raoule Ferguson – AA3VF
- 30: Paul Bohlander – W3VVS

Don't forget!
The MS 150
needs you!

This year will probably
 be the biggest MS 150
 ever, and 50 ham
 volunteers are still
 needed.

Contact Charlie W3WF w3wf@aol.com or Russ W3CH
 w3ch@arrl.net or call on the MetroComm Repeater
 System on 147.315+ (PL 67.0 Philly, 156.7 Chester PA
 and 131.8 Glassboro, NJ)

Date	Event
Thu 01	Licence Exams 6pm (see Page 2)
Fri 02	
Sat 03	
Sun 04	NCS: 2m WA3NSP-10m W3AA-75m W2AJV
Mon 05	
Tue 06	
Wed 07	
Thu 08	
Fri 09	
Sat 10	
Sun 11	NCS: 2m N3OWM-10m W3AA-75m WA3KIO
Mon 12	
Tue 13	
Wed 14	
Thu 15	
Fri 16	
Sat 17	
Sun 18	NCS: 2m KB3IV-10m W3AA-75m KB3IV
Mon 19	
Tue 20	
Wed 21	
Thu 22	
Fri 23	
Sat 24	
Sun 25	NCS: 2m N3FTY-10m W3AA-75m NG3P
Mon 26	
Tue 27	
Wed 28	
Thu 29	
Fri 30	
Sat 31	

First Class Mail

The Phil-Mont Mobile Radio Club, Inc
 641 Kismet Road Philadelphia PA 19115

The Blue